Welcome to STN International! Enter x:X

LOGINID: SSPATMXM01

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

```
* * * * * * * * *
                     Welcome to STN International
                                                    * * * * * * * * *
                 Web Page for STN Seminar Schedule - N. America
NEWS
NEWS
         JAN 02
                 STN pricing information for 2008 now available
                 CAS patent coverage enhanced to include exemplified
NEWS
         JAN 16
                 prophetic substances
NEWS 4
         JAN 28
                 USPATFULL, USPAT2, and USPATOLD enhanced with new
                 custom IPC display formats
NEWS 5 JAN 28 MARPAT searching enhanced
NEWS 6 JAN 28 USGENE now provides USPTO sequence data within 3 days
                 of publication
         JAN 28
NEWS 7
                 TOXCENTER enhanced with reloaded MEDLINE segment
NEWS 8 JAN 28 MEDLINE and LMEDLINE reloaded with enhancements
NEWS 9 FEB 08 STN Express, Version 8.3, now available
NEWS 10 FEB 20 PCI now available as a replacement to DPCI
NEWS 11 FEB 25 IFIREF reloaded with enhancements
NEWS 12 FEB 25
                 IMSPRODUCT reloaded with enhancements
NEWS 13 FEB 29
                 WPINDEX/WPIDS/WPIX enhanced with ECLA and current
                 U.S. National Patent Classification
                 IFICDB, IFIPAT, and IFIUDB enhanced with new custom
NEWS 14 MAR 31
                 IPC display formats
         MAR 31 CAS REGISTRY enhanced with additional experimental
NEWS 15
                 spectra
NEWS 16
         MAR 31
                 CA/CAplus and CASREACT patent number format for U.S.
                 applications updated
NEWS 17 MAR 31
                 LPCI now available as a replacement to LDPCI
NEWS 18 MAR 31 EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS 19 APR 04 STN AnaVist, Version 1, to be discontinued
NEWS 20 APR 15 WPIDS, WPINDEX, and WPIX enhanced with new
                 predefined hit display formats
NEWS 21 APR 28 EMBASE Controlled Term thesaurus enhanced
NEWS 22
         APR 28
                 IMSRESEARCH reloaded with enhancements
NEWS 23 MAY 30
                 INPAFAMDB now available on STN for patent family
                 searching
NEWS 24
         MAY 30
                 DGENE, PCTGEN, and USGENE enhanced with new homology
                 sequence search option
NEWS 25
         JUN 06
                 EPFULL enhanced with 260,000 English abstracts
NEWS 26
                 KOREAPAT updated with 41,000 documents
         JUN 06
NEWS 27
         JUN 13 USPATFULL and USPAT2 updated with 11-character
                 patent numbers for U.S. applications
NEWS 28
         JUN 19
                CAS REGISTRY includes selected substances from
                 web-based collections
```

NEWS EXPRESS FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008

NEWS HOURS STN Operating Hours Plus Help Desk Availability

NEWS LOGIN Welcome Banner and News Items

NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 13:38:14 ON 24 JUN 2008

=> FIL CAPLUS

COST IN U.S. DOLLARS SINCE FILE TOTAL

ENTRY SESSION

FULL ESTIMATED COST

0.21 0.21 FILE 'CAPLUS' ENTERED AT 13:38:35 ON 24 JUN 2008

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FILE COVERS 1907 - 24 Jun 2008 VOL 148 ISS 26 FILE LAST UPDATED: 23 Jun 2008 (20080623/ED)

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=> s us20070148581/pn

T.1 1 US20070148581/PN

=> sel rn

E1 THROUGH E5 ASSIGNED

=> s e1-e5

22226 102-71-6/BI

10933 11105-01-4/BI

29444 69-72-7/BI

65 808752-25-2/BI

1 854985-67-4/BI

L2 62303 (102-71-6/BI OR 11105-01-4/BI OR 69-72-7/BI OR 808752-25-2/BI => s 11 and 12

1 L1 AND L2 L3

=> d ibib abs hitstr hitind

ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2005:547798 CAPLUS Full-text

DOCUMENT NUMBER: 143:86703

Photoresist composition and method for forming resist TITLE:

pattern

INVENTOR(S): Tsuji, Hiromitsu; Endo, Kotaro PATENT ASSIGNEE(S): Tokyo Ohka Kogyo Co., Ltd., Japan

SOURCE: PCT Int. Appl., 27 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA	PATENT NO.					KIND DATE			APPLICATION NO.					DATE				
WO	2005	0572	84		A1 20050623			WO 2004-JP17719					20041129					
	W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	AZ,	BA,	BB,	ВG,	BR,	BW,	BY,	BZ,	CA,	CH,	
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,	
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	ΚE,	KG,	KP,	KR,	KΖ,	LC,	LK,	
		LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	NI,	NO,	
		NΖ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,	ΤJ,	
		TM,	TN,	TR,	ΤΤ,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW		
	RW:	BW,	GH,	GM,	ΚE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	
		ΑZ,	BY,	KG,	KΖ,	MD,	RU,	ΤJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	
		EE,	ES,	FI,	FR,	GB,	GR,	HU,	ΙE,	IS,	ΙΤ,	LU,	MC,	NL,	PL,	PT,	RO,	
		SE,	SI,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	${ m ML}$ ,	MR,	
		NE,	SN,	TD,	ΤG													
JP	2005	1729	49		Α		2005	0630		JP 2	003-	4095	00		2	0031	208	
US	2007	0148	581		A1		2007	0628		US 2	006-	5817	77		2	0060	606 <	<
PRIORIT	Y APP	LN.	INFO	.:						JP 2	003-	4095	00		A 2	0031	208	
										WO 2	004-	JP17	719	1	W 2	0041	129	
OTHED C	ALID CE	191.			MADI	דעס	1/12 •	8670	3									

OTHER SOURCE(S): MARPAT 143:86703

GΙ

$$R^3$$
  $R^2 = \stackrel{l^+}{S} + R^1$   $N = \stackrel{SO2}{N} \times 1$ 

AΒ Disclosed is a photoresist composition which contains (A) a polymer component comprising an alkali-soluble constitutional unit having an alicyclic group which has both (i) a fluorine atom or a fluorinated alkyl group and (ii) an alc. hydroxyl group, which polymer component has an alkali solubility that is changed by action of an acid, and (B) at least one sulfonium compound represented by at least the general formula I (X = C2-6-fluoroalkylene; R1-3 =aryl, alkyl) as an acid generator which generates an acid when exposed to light.

ΙT 69-72-7, Salicylic acid, uses 102-71-6, Triethanol amine, uses

RL: MOA (Modifier or additive use); USES (Uses)

(additive to photoresist composition; photoresist composition and method for forming resist pattern)

RN 69-72-7 CAPLUS

CN Benzoic acid, 2-hydroxy- (CA INDEX NAME)

RN 102-71-6 CAPLUS

CN Ethanol, 2,2',2''-nitrilotris- (CA INDEX NAME)

IT 11105-01-4, Silicon oxynitride

RL: DEV (Device component use); USES (Uses)

(coating layer on Si wafer; photoresist composition and method for forming resist pattern)

RN 11105-01-4 CAPLUS

CN Silicon nitride oxide (CA INDEX NAME)

Component		Ratio		Component Registry Number
=========	==+==		==+=	
N	1	x		17778-88-0
0	- 1	x		17778-80-2
Si		X		7440-21-3

IT 808752-25-2

RL: CAT (Catalyst use); USES (Uses)

(photoacid generator; photoresist composition and method for forming resist pattern)

RN 808752-25-2 CAPLUS

CN Sulfonium, triphenyl-, salt with 4,4,5,5,6,6-hexafluorodihydro-4H-1,3,2-dithiazine 1,1,3,3-tetraoxide (1:1) (CA INDEX NAME)

CM 1

CRN 146063-77-6

CMF C3 F6 N O4 S2

CM 2

CRN 18393-55-0 CMF C18 H15 S

IT 854985-67-4

RL: TEM (Technical or engineered material use); USES (Uses) (photoresist composition and method for forming resist pattern)

RN 854985-67-4 CAPLUS

CN Bicyclo[3.1.1]heptane, 1,2,2,6,6-pentafluoro-3-(methoxymethoxy)-3-(trifluoromethyl)-, polymer with 1,2,2,7,7-pentafluoro-3-(methoxymethoxy)-3-(trifluoromethyl)bicyclo[3.2.0]heptane (9CI) (CA INDEX NAME)

CM 1

CRN 854985-66-3 CMF C10 H10 F8 O2

CM 2

CRN 681242-79-5 CMF C10 H10 F8 O2

$$\begin{array}{c|c} F & F & CH_2-OMe \\ \hline & CF_3 & \end{array}$$

IC ICM G03F007-004

ICS G03F007-039; H01L021-027

CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 38, 76

IT 69-72-7, Salicylic acid, uses 102-71-6, Triethanol amine, uses

RL: MOA (Modifier or additive use); USES (Uses)

(additive to photoresist composition; photoresist composition and method for forming resist pattern)

IT 11105-01-4, Silicon oxynitride

RL: DEV (Device component use); USES (Uses)

(coating layer on Si wafer; photoresist composition and method for forming resist pattern)

IT 808752-25-2

RL: CAT (Catalyst use); USES (Uses)

(photoacid generator; photoresist composition and method for forming resist pattern)

IT 854985-67-4

RL: TEM (Technical or engineered material use); USES (Uses)

(photoresist composition and method for forming resist pattern)

REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s 854985-67-4/rn

1 854985-67-4

0 854985-67-4D

L4 1 854985-67-4/RN

(854985-67-4 (NOTL) 854985-67-4D )

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	27.66	27.87
	0.71100 0.7110	
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-0.80	-0.80

FILE 'REGISTRY' ENTERED AT 13:44:32 ON 24 JUN 2008
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=> d fide

L5 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN

RN 854985-67-4 REGISTRY

ED Entered STN: 13 Jul 2005

CN Bicyclo[3.1.1]heptane, 1,2,2,6,6-pentafluoro-3-(methoxymethoxy)-3-(trifluoromethyl)-, polymer with 1,2,2,7,7-pentafluoro-3-(methoxymethoxy)-3-(trifluoromethyl)bicyclo[3.2.0]heptane (9CI) (CA INDEX NAME)

MF (C10 H10 F8 O2 . C10 H10 F8 O2)x

CI PMS

PCT Polyother, Polyother only

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: USES (Uses)

Ring System Data

Elemental	Elemental	Size of	Ring System	n  Ring	RID
Analysis	Sequence	the Rings	Formula	Identifier	0ccurrence
EA	ES	SZ	RF	RID	Count
=======	+=======	+======	+=======	+======	+=======
C4-C5	C4-C5	4-5	IC7	99.7.1	1 in CM
		1	1		2
C4-C6	C4-C6	4-6	IC7	107.7.1	1 in CM
				1	1

CM 1

CRN 854985-66-3 CMF C10 H10 F8 O2

CM 2

CRN 681242-79-5 CMF C10 H10 F8 O2

$$\begin{array}{c|c} F & F & F \\ \hline & CF_3 & \\ \end{array}$$

# 1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

#### => FIL REGISTRY

COST IN U.S. DOLLARS

SINCE FILE TOTAL
ENTRY SESSION

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE TOTAL
ENTRY SESSION

CA SUBSCRIBER PRICE

0.00 -0.80

FILE 'REGISTRY' ENTERED AT 13:45:32 ON 24 JUN 2008
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STRUCTURE FILE UPDATES: 23 JUN 2008 HIGHEST RN 1030103-54-8 DICTIONARY FILE UPDATES: 23 JUN 2008 HIGHEST RN 1030103-54-8

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## http://www.cas.org/support/stngen/stndoc/properties.html

=> S 854985-66-3/RN

L6 1 854985-66-3/RN

=> SET NOTICE 1 DISPLAY

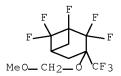
NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND SET COMMAND COMPLETED

=> D L6 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):Y THE ESTIMATED COST FOR THIS REQUEST IS 6.65 U.S. DOLLARS DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

- L6 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
- RN 854985-66-3 REGISTRY
- CN Bicyclo[3.1.1]heptane, 1,2,2,6,6-pentafluoro-3-(methoxymethoxy)-3-(trifluoromethyl)- (CA INDEX NAME)

MF C10 H10 F8 O2 CI COM SR CA



## \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

## => SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND SET COMMAND COMPLETED

=>

=> s 854985-66-3/rn

L7 1 854985-66-3/RN

=> s 681242-79-5/rn

L8 1 681242-79-5/RN

=> FIL CAPLUS

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 3.38 34.61 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL SESSION ENTRY -0.80 CA SUBSCRIBER PRICE 0.00

FILE 'CAPLUS' ENTERED AT 13:47:18 ON 24 JUN 2008
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# http://www.cas.org/legal/infopolicy.html

=> s 17 and 18

0 L7

0 L8

L9 0 L7 AND L8

=> s 681242-79-5/crn
REG1stRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress... Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L11 3 L10

=> s 854985-66-3/crn REG1stRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress... Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L13 1 L12

=> FIL STNGUIDE

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.92	38.41
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY 0.00	SESSION -0.80

FILE 'STNGUIDE' ENTERED AT 13:50:26 ON 24 JUN 2008 USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Jun 20, 2008 (20080620/UP).

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.30	38.71
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY 0.00	SESSION -0.80

FILE 'REGISTRY' ENTERED AT 13:53:16 ON 24 JUN 2008
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http://www.cas.org/support/stngen/stndoc/properties.html

=> ....Testing the current file.... screen

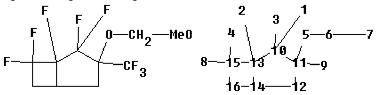
ENTER SCREEN EXPRESSION OR (END):end

=> screen 2043

L14 SCREEN CREATED

=>

Uploading C:\Program Files\STNEXP\Queries\fluoromono1-1.str



```
chain nodes :
1  2  3  4  5  6  7  8  9
ring nodes :
10  11  12  13  14  15  16
chain bonds :
1-10  2-13  3-10  4-15  5-11  5-6  6-7  8-15  9-11
ring bonds :
10-11  10-13  11-12  12-14  13-15  13-14  14-16  15-16
exact/norm bonds :
5-11  10-11  10-13  11-12  12-14  13-15  13-14  14-16  15-16
exact bonds :
1-10  2-13  3-10  4-15  5-6  6-7  8-15  9-11
```

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom

L15 STRUCTURE UPLOADED

=> que L15 AND L14

L16 QUE L15 AND L14

=> s 116

SAMPLE SEARCH INITIATED 13:53:40 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 1 TO ITERATE

100.0% PROCESSED 1 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 1 TO 80 PROJECTED ANSWERS: 0 TO 0

L17 0 SEA SSS SAM L15 AND L14

=> s 116 sss full

FULL SEARCH INITIATED 13:53:52 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 20 TO ITERATE

100.0% PROCESSED 20 ITERATIONS 3 ANSWERS

SEARCH TIME: 00.00.01

L18 3 SEA SSS FUL L15 AND L14

=> d scan

L18 3 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN Bicyclo[3.1.1]heptane, 1,2,2,6,6-pentafluoro-3-(methoxymethoxy)-3-(trifluoromethyl)-, polymer with 1,2,2,7,7-pentafluoro-3-(methoxymethoxy)-3-(trifluoromethyl)bicyclo[3.2.0]heptane (9CI)

MF (C10 H10 F8 O2 . C10 H10 F8 O2)x

CI PMS

CM 1

F F F F MeO-CH2-OCF3

CM 2

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

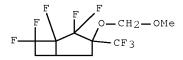
L18 3 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN Bicyclo[3.2.0]heptan-3-ol, 1,2,2,7,7-pentafluoro-3-(trifluoromethyl)-, polymer with 1,2-bis(chloromethoxy)ethane and 1,2,2,7,7-pentafluoro-3-(methoxymethoxy)-3-(trifluoromethyl)bicyclo[3.2.0]heptane (9CI)

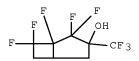
MF (C10 H10 F8 O2 . C8 H6 F8 O . C4 H8 C12 O2)x

CI PMS

CM 1



CM 2



CM 3

C1CH2-O-CH2-CH2-O-CH2C1

# HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L18 3 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN Bicyclo[3.2.0]heptan-3-ol, 1,2,2,7,7-pentafluoro-3-(trifluoromethyl)-,
polymer with 1,2,2,7,7-pentafluoro-3-(methoxymethoxy)-3-

(trifluoromethyl)bicyclo[3.2.0]heptane (9CI)

MF (C10 H10 F8 O2 . C8 H6 F8 O)x

CI PMS

CM 2

## ALL ANSWERS HAVE BEEN SCANNED

#### => 1

## 1 IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system. For a list of commands available to you in the current file, enter "HELP COMMANDS" at an arrow prompt (=>).

=> d his

L1

L5

(FILE 'HOME' ENTERED AT 13:38:14 ON 24 JUN 2008)

FILE 'CAPLUS' ENTERED AT 13:38:35 ON 24 JUN 2008 1 S US20070148581/PN SEL RN

62303 S E1-E5 L2 1 S L1 AND L2 L3 1 S 854985-67-4/RN L4

> FILE 'REGISTRY' ENTERED AT 13:44:32 ON 24 JUN 2008 1 S L4

FILE 'REGISTRY' ENTERED AT 13:45:32 ON 24 JUN 2008

L6 1 S 854985-66-3/RN SET NOTICE 1 DISPLAY SET NOTICE LOGIN DISPLAY

L7 1 S 854985-66-3/RN 1 S 681242-79-5/RN L8

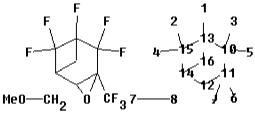
FILE 'CAPLUS' ENTERED AT 13:47:18 ON 24 JUN 2008

L9 0 S L7 AND L8 S 681242-79-5/CRN

```
FILE 'REGISTRY' ENTERED AT 13:47:55 ON 24 JUN 2008
L10
             3 S 681242-79-5/CRN
    FILE 'CAPLUS' ENTERED AT 13:47:55 ON 24 JUN 2008
             3 S L10
L11
                S 854985-66-3/CRN
     FILE 'REGISTRY' ENTERED AT 13:48:08 ON 24 JUN 2008
L12
             1 S 854985-66-3/CRN
     FILE 'CAPLUS' ENTERED AT 13:48:09 ON 24 JUN 2008
L13
             1 S L12
    FILE 'STNGUIDE' ENTERED AT 13:50:26 ON 24 JUN 2008
    FILE 'REGISTRY' ENTERED AT 13:53:16 ON 24 JUN 2008
L14
               SCREEN 2043
L15
               STRUCTURE UPLOADED
L16
                QUE L15 AND L14
L17
             0 S L16
L18
             3 S L16 SSS FULL
```

=>

Uploading C:\Program Files\STNEXP\Queries\fluromono2-1.str



chain nodes :
1 2 3 4 5 6 7 8
ring nodes :
9 10 11 12 13 14 15 16
chain bonds :
1-13 2-15 3-10 4-15 5-10 6-11 7-8
ring bonds :
9-11 9-12 10-11 10-13 11-12 12-14 13-15 13-16 14-15 14-16
exact/norm bonds :
9-11 9-12 10-11 10-13 11-12 12-14 13-15 13-16 14-15 14-16
exact bonds :
1-13 2-15 3-10 4-15 5-10 6-11 7-8

Match level:
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:Atom
10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom

## L19 STRUCTURE UPLOADED

=> s 119 sss sam
SAMPLE SEARCH INITIATED 13:56:51 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 3 TO ITERATE

100.0% PROCESSED 3 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*
BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 3 TO 163
PROJECTED ANSWERS: 0 TO 0

L20 0 SEA SSS SAM L19

=> s 119 sss full

FULL SEARCH INITIATED 13:56:59 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 63 TO ITERATE

100.0% PROCESSED 63 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

L21 0 SEA SSS FUL L19

=>

Uploading C:\Program Files\STNEXP\Queries\fluoromono2-2.str

chain nodes :

1 2 3 4 5 6 7 8 9

ring nodes :

10 11 12 13 14 15 16

chain bonds :

1-13 2-15 3-10 4-15 5-10 6-11 7-8 8-9 9-12

ring bonds :

 $10-11 \quad 10-13 \quad 11-12 \quad 12-14 \quad 13-15 \quad 13-16 \quad 14-15 \quad 14-16$ 

exact/norm bonds :

9-12 10-11 10-13 11-12 12-14 13-15 13-16 14-15 14-16

exact bonds :

 $1 - 13 \quad 2 - 15 \quad 3 - 10 \quad 4 - 15 \quad 5 - 10 \quad 6 - 11 \quad 7 - 8 \quad 8 - 9$ 

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:Atom

10:Atom

11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom

L22 STRUCTURE UPLOADED

=> s 122 sss sam

SAMPLE SEARCH INITIATED 13:59:37 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 0 TO 0 PROJECTED ANSWERS: 0 TO 0

L23 0 SEA SSS SAM L22

=> s 122 sss full

FULL SEARCH INITIATED 13:59:48 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 12 TO ITERATE

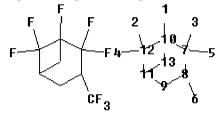
100.0% PROCESSED 12 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

L24 0 SEA SSS FUL L22

=>

Uploading C:\Program Files\STNEXP\Queries\fluromono2--3.str



chain nodes :

1 2 3 4 5 6

ring nodes :

7 8 9 10 11 12 13

chain bonds :

1-10 2-12 3-7 4-12 5-7 6-8

ring bonds :

7-8 7-10 8-9 9-11 10-12 10-13 11-12 11-13

exact/norm bonds :

7-8 7-10 8-9 9-11 10-12 10-13 11-12 11-13

exact bonds :

1-10 2-12 3-7 4-12 5-7 6-8

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:Atom 8:Atom 9:Atom

10:Atom

11:Atom 12:Atom 13:Atom

## L25 STRUCTURE UPLOADED

=> s 125 sss sam

SAMPLE SEARCH INITIATED 14:02:14 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 92 TO ITERATE

92 ITERATIONS 100.0% PROCESSED 0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\* BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 1265 TO 2415

PROJECTED ANSWERS: 0 TO

0 SEA SSS SAM L25 L26

=> s 125 sss full

FULL SEARCH INITIATED 14:02:28 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 1676 TO ITERATE

100.0% PROCESSED 1676 ITERATIONS 4 ANSWERS

SEARCH TIME: 00.00.01

L27 4 SEA SSS FUL L25

=> d scan

REGISTRY COPYRIGHT 2008 ACS on STN L27 4 ANSWERS

Bicyclo[3.1.1]heptane, 1,2,2,6,6-pentafluoro-3-(methoxymethoxy)-3-(trifluoromethyl)-, polymer with 1,2,2,7,7-pentafluoro-3-(methoxymethoxy)-3-(trifluoromethyl)bicyclo[3.2.0]heptane (9CI)

(C10 H10 F8 O2 . C10 H10 F8 O2)x MF

CI PMS

> CM 1

CM

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L27 4 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

Bicyclo[3.1.1]heptan-3-ol, 1,2,2,6,6-pentafluoro-3-(trifluoromethyl)-ΙN

MFC8 H6 F8 O

CI COM

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L27 4 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN Bicyclo[3.1.1]heptan-3-ol, 1,2,2,6,6-pentafluoro-3-(trifluoromethyl)-, polymer with 1,2,2,7,7-pentafluoro-3-(trifluoromethyl)bicyclo[3.2.0]heptan-3-ol (9CI)

MF (C8 H6 F8 O . C8 H6 F8 O)x

CI PMS

CM 1

CM 2

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L27 4 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN Bicyclo[3.1.1]heptane, 1,2,2,6,6-pentafluoro-3-(methoxymethoxy)-3 (trifluoromethyl)-

MF C10 H10 F8 O2

CI COM

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

ALL ANSWERS HAVE BEEN SCANNED

=> ....Testing the current file.... screen

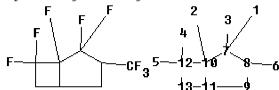
ENTER SCREEN EXPRESSION OR (END):end

=> screen 2043

L28 SCREEN CREATED

=>

Uploading C:\Program Files\STNEXP\Queries\fluormono3.str



chain nodes :
1 2 3 4 5 6
ring nodes :
7 8 9 10 11 12 13
chain bonds :
1-7 2-10 3-7 4-12 5-12 6-8
ring bonds :
7-8 7-10 8-9 9-11 10-12 10-11 11-13 12-13
exact/norm bonds :
7-8 7-10 8-9 9-11 10-12 10-11 11-13 12-13

1-7 2-10 3-7 4-12 5-12 6-8

Match level :

exact bonds :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:Atom 8:Atom 9:Atom

10:Atom

11:Atom 12:Atom 13:Atom

=> que L29 AND L28

L30 QUE L29 AND L28

=> s 130 sss sam

SAMPLE SEARCH INITIATED 14:06:08 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 6 TO ITERATE

100.0% PROCESSED 6 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 6 TO 266
PROJECTED ANSWERS: 0 TO 0

L31 0 SEA SSS SAM L29 AND L28

=> s 130 sss full

FULL SEARCH INITIATED 14:06:16 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 85 TO ITERATE

100.0% PROCESSED 85 ITERATIONS 11 ANSWERS

SEARCH TIME: 00.00.01

L32 11 SEA SSS FUL L29 AND L28

=> FIL CAPLUS

COST IN U.S. DOLLARS
SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST
B99.62
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
SINCE FILE TOTAL

ENTRY SESSION
CA SUBSCRIBER PRICE
0.00 -0.80

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FILE COVERS 1907 - 24 Jun 2008 VOL 148 ISS 26 FILE LAST UPDATED: 23 Jun 2008 (20080623/ED)

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http://www.cas.org/legal/infopolicy.html

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               SEL RN
         62303 S E1-E5
L2
L3
             1 S L1 AND L2
             1 S 854985-67-4/RN
L4
    FILE 'REGISTRY' ENTERED AT 13:44:32 ON 24 JUN 2008
             1 S L4
L5
    FILE 'REGISTRY' ENTERED AT 13:45:32 ON 24 JUN 2008
L6
             1 S 854985-66-3/RN
               SET NOTICE 1 DISPLAY
               SET NOTICE LOGIN DISPLAY
L7
             1 S 854985-66-3/RN
L8
             1 S 681242-79-5/RN
    FILE 'CAPLUS' ENTERED AT 13:47:18 ON 24 JUN 2008
L9
             0 S L7 AND L8
               S 681242-79-5/CRN
    FILE 'REGISTRY' ENTERED AT 13:47:55 ON 24 JUN 2008
L10
             3 S 681242-79-5/CRN
    FILE 'CAPLUS' ENTERED AT 13:47:55 ON 24 JUN 2008
L11
             3 S L10
               S 854985-66-3/CRN
    FILE 'REGISTRY' ENTERED AT 13:48:08 ON 24 JUN 2008
            1 S 854985-66-3/CRN
L12
    FILE 'CAPLUS' ENTERED AT 13:48:09 ON 24 JUN 2008
L13
            1 S L12
     FILE 'STNGUIDE' ENTERED AT 13:50:26 ON 24 JUN 2008
    FILE 'REGISTRY' ENTERED AT 13:53:16 ON 24 JUN 2008
L14
              SCREEN 2043
L15
               STRUCTURE UPLOADED
L16
               OUE L15 AND L14
L17
             0 S L16
             3 S L16 SSS FULL
L18
L19
               STRUCTURE UPLOADED
L20
             0 S L19 SSS SAM
L21
             0 S L19 SSS FULL
L22
               STRUCTURE UPLOADED
L23
            0 S L22 SSS SAM
L24
             0 S L22 SSS FULL
L25
               STRUCTURE UPLOADED
L26
             0 S L25 SSS SAM
L27
             4 S L25 SSS FULL
              SCREEN 2043
L28
L29
              STRUCTURE UPLOADED
              QUE L29 AND L28
L30
            0 S L30 SSS SAM
L31
L32
            11 S L30 SSS FULL
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## FILE 'CAPLUS' ENTERED AT 14:06:28 ON 24 JUN 2008

=> s 127

L33 2 L27

=> s 132

L34 13 L32

=> s 133 and 134

L35 2 L33 AND L34

=> s 135 not 11

L36 1 L35 NOT L1

=> d ibib abs hitstr hitind

L36 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2006:319706 CAPLUS Full-text

DOCUMENT NUMBER: 144:379243

TITLE: Black matrix composition, black matrix prepared using

the same for manufacturing a color filter substrate

INVENTOR(S): Kang, Yoon-Ho; Kim, Byoung-Joo; Kim, Jang-Sub; Kwon,

Seong-Gyu

PATENT ASSIGNEE(S): Samsung Electronics Co., Ltd., S. Korea

SOURCE: U.S. Pat. Appl. Publ., 17 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE		
US 20060073398	A1	20060406	US 2005-233257		20050921		
KR 2006027222	А	20060327	KR 2004-76084		20040922		
JP 2006099033	A	20060413	JP 2004-355251		20041208		
CN 1854894	A	20061101	CN 2005-10129145		20050922		
PRIORITY APPLN. INFO.:			KR 2004-76084	Α	20040922		

AB A black matrix composition includes about 40 parts by weight of a pigment dispersion, about 0.1 to about 1.0 part by weight of a photoinitiator, about 5 to about 20 parts by weight of a photo-polymerizable monomer, about 5 to about 20 parts by weight of a binder resin including an acryl-based copolymer containing fluorine and having a hydroxyl group combined with a side chain of the acryl-based copolymer, about 0.1 to about 0.5 part by weight of epoxy-based monomer containing fluorine and about 35 to about 55 parts by weight of a solvent. A black matrix pattern formed of the black matrix minimizes an ink bleed, thereby improving color property of a liquid crystal display device to which the black matrix pattern is applied.

IT 882050-50-2

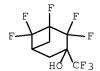
RL: TEM (Technical or engineered material use); USES (Uses)

(binder; black matrix composition for manufacturing color filter substrate containing)

RN 882050-50-2 CAPLUS

CN Bicyclo[3.1.1]heptan-3-ol, 1,2,2,6,6-pentafluoro-3-(trifluoromethyl)-, polymer with 1,2,2,7,7-pentafluoro-3-(trifluoromethyl)bicyclo[3.2.0]heptan-3-ol (9CI) (CA INDEX NAME)

CRN 882050-49-9 CMF C8 H6 F8 O



CM 2

CRN 637035-70-2 CMF C8 H6 F8 O

INCL 430007000; 430280100

CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

Section cross-reference(s): 35, 38

IT 863968-44-9, Cyclohexylmethacrylate-glycidyl methacrylate-styrene copolymer 882050-50-2

RL: TEM (Technical or engineered material use); USES (Uses)

(binder; black matrix composition for manufacturing color filter substrate containing)

=> d his

(FILE 'HOME' ENTERED AT 13:38:14 ON 24 JUN 2008)

FILE 'CAPLUS' ENTERED AT 13:38:35 ON 24 JUN 2008

L1 1 S US20070148581/PN

SEL RN

L2 62303 S E1-E5

L3 1 S L1 AND L2

L4 1 S 854985-67-4/RN

FILE 'REGISTRY' ENTERED AT 13:44:32 ON 24 JUN 2008

L5 1 S L4

FILE 'REGISTRY' ENTERED AT 13:45:32 ON 24 JUN 2008

L6 1 S 854985-66-3/RN

SET NOTICE 1 DISPLAY

SET NOTICE LOGIN DISPLAY

L7 1 S 854985-66-3/RN

L8 1 S 681242-79-5/RN

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FILE 'CAPLUS' ENTERED AT 13:47:18 ON 24 JUN 2008
L9
             0 S L7 AND L8
               S 681242-79-5/CRN
     FILE 'REGISTRY' ENTERED AT 13:47:55 ON 24 JUN 2008
L10
             3 S 681242-79-5/CRN
     FILE 'CAPLUS' ENTERED AT 13:47:55 ON 24 JUN 2008
L11
             3 S L10
               S 854985-66-3/CRN
     FILE 'REGISTRY' ENTERED AT 13:48:08 ON 24 JUN 2008
             1 S 854985-66-3/CRN
T.12
    FILE 'CAPLUS' ENTERED AT 13:48:09 ON 24 JUN 2008
L13
             1 S L12
     FILE 'STNGUIDE' ENTERED AT 13:50:26 ON 24 JUN 2008
    FILE 'REGISTRY' ENTERED AT 13:53:16 ON 24 JUN 2008
               SCREEN 2043
L14
L15
               STRUCTURE UPLOADED
L16
               QUE L15 AND L14
             0 S L16
L17
             3 S L16 SSS FULL
L18
L19
              STRUCTURE UPLOADED
L20
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L21
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L28
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L33
L34
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L35
             2 S L33 AND L34
L36
             1 S L35 NOT L1
=> s 134 not 135
L37
      11 L34 NOT L35
=> d ibib abs hitstr hitind 1-11
L37 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2006:101051 CAPLUS Full-text
DOCUMENT NUMBER:
                        144:160286
TITLE:
                        Polymer compositions for formation of protective
                       layers by immersion exposure, method for manufacture
                       of the compositions, and method for their patterning
                       Inabe, Haruki; Kanna, Shinichi; Kanda, Hiromi
INVENTOR(S):
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
```

SOURCE: Jpn. Kokai Tokkyo Koho, 31 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2006030603	A	20060202	JP 2004-209569	20040716
PRIORITY APPLN. INFO.:			JP 2004-209569	20040716

AB The compns. contain (A) water-insol. polymers showing solubility in alkaline, (B) solvents, preferably, a mixture of ≥2 solvents, and optionally (C) surfactants, and the contents of metal impurities in the compns. are controlled to ≤100 ppb. Method for manufacture of the compns. include filtration of the solution containing A with an ion exchange filter. In formation of resist patterns, the compns. are applied onto the resist layer, prior to its immersion exposure and development.

IT 862374-85-4 873933-26-7

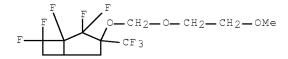
RL: TEM (Technical or engineered material use); USES (Uses) (metal impurity-controlled polymer compns. for formation of protective overlayers on photoresists for their patterning by immersion exposure and development)

RN 862374-85-4 CAPLUS

CN Bicyclo[3.2.0]heptan-3-ol, 1,2,2,7,7-pentafluoro-3-(trifluoromethyl)-, polymer with 1,2,2,7,7-pentafluoro-3-[(2-methoxyethoxy)methoxy]-3-(trifluoromethyl)bicyclo[3.2.0]heptane (9CI) (CA INDEX NAME)

CM 1

CRN 862374-84-3 CMF C12 H14 F8 O3



CM 2

CRN 637035-70-2 CMF C8 H6 F8 O

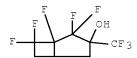
RN 873933-26-7 CAPLUS

CN Bicyclo[3.2.0]heptan-3-ol, 1,2,2,7,7-pentafluoro-3-(trifluoromethyl)-,

homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 637035-70-2 CMF C8 H6 F8 O



CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

IT 26873-70-1 59941-91-2 101944-39-2 484649-10-7 862374-85-4

873315-90-3 873933-25-6 873933-26-7

RL: TEM (Technical or engineered material use); USES (Uses) (metal impurity-controlled polymer compns. for formation of protective overlayers on photoresists for their patterning by immersion exposure and development)

L37 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2005:1154596 CAPLUS Full-text

DOCUMENT NUMBER: 143:423027

TITLE: Polymers for photoresist compositions with good

resolution

INVENTOR(S): Ogata, Toshiyuki; Matsumaru, Syogo; Hada, Hideo;

Yoshida, Masaaki

PATENT ASSIGNEE(S): Tokyo Ohka Kogyo Co., Ltd., Japan

SOURCE: PCT Int. Appl., 77 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PAT	FENT	NO.			KIN		DATE			APPL	ICAT	ION I	NO.	DATE				
WO	2005	1004	12		A1		2005		,	WO 2	005-	JP66	57			0050		
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		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FΙ,	GB,	GD,	
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		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MΖ,	NA,	NΙ,	
		NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SM,	
		SY,	ΤJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW
	RW:	BW,	GH,	GM,	ΚE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	
		ΑZ,	BY,	KG,	KΖ,	MD,	RU,	ТJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	
		EE,	ES,	FΙ,	FR,	GB,	GR,	HU,	ΙE,	IS,	IT,	LT,	LU,	MC,	NL,	PL,	PT,	
		RO,	SE,	SI,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	
		MR,	ΝE,	SN,	TD,	ΤG												
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ΕP	1736	485			A1		2006	1227		EP 2	005-	7287	89		2	0050	405	
	R:	BE																
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KR	2007	0096	20		А		2007	0118		KR 2	006-	7212.	29		2	0061	012	

OTHER SOURCE(S): MARPAT 143:423027

Title polymer compds. whose alkali solubility after exposure is significantly changed from one before exposure in a chemical amplified pos. resist system contain as an alkali-soluble group, a substituent selected from alc. hydroxyl groups, carboxyl groups and phenolic hydroxyl groups and protected with an acid-cleavable dissoln. inhibiting group CH2OA(OCH2)n, wherein A = C1-20organic group with (n + 1) valance and n = 1-4 integer. Thus, 1,2-ethanediol and p-formaldehyde were reacted, purged with hydrogen chloride to give 1,2bis(chloromethoxy)ethane, 0.9 g of which was reacted with 10.0 g 1,2,2,7,7pentafluoro-3-(trifluoromethyl)-bicyclo[3.2.0]heptan-3-ol- 1,2,2,7,7pentafluoro-3-(methoxymethoxy)-3-(trifluoromethyl)bicyclo[3.2.0] heptane copolymer in the presence of sodium hydride at room temperature for 12 h to give a protected copolymer, 100 parts of which was mixed with triphenylsulfonium perfluorobutanesulfonate 4.0, triisoprpanolamine 0.4, and propylene glycol monomethyl ether acetate 1250 parts, applied on an antireflective-coated silicon wafer, heated at 110° for 90 s, irradiated through a photomask, heated at 90° for 60 s, developed using 38% aqueous tetramethylammonium hydroxide solution for 30 s, washed, and dried to give a good pattern.

IT 868157-51-1P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

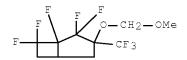
(polymers for photoresist compns. with good resolution)

RN 868157-51-1 CAPLUS

CN Bicyclo[3.2.0]heptan-3-ol, 1,2,2,7,7-pentafluoro-3-(trifluoromethyl)-, polymer with 1,2-bis(chloromethoxy)ethane and 1,2,2,7,7-pentafluoro-3-(methoxymethoxy)-3-(trifluoromethyl)bicyclo[3.2.0]heptane (9CI) (CA INDEX NAME)

CM 1

CRN 681242-79-5 CMF C10 H10 F8 O2



CM 2

CRN 637035-70-2 CMF C8 H6 F8 O

CM 3

CRN 13483-18-6 CMF C4 H8 C12 O2

C1CH2-O-CH2-CH2-O-CH2C1

ICM C08F008-00 TC

ICS C07C069-54; C08F020-20; G03F007-039

CC 37-3 (Plastics Manufacture and Processing)

Section cross-reference(s): 38, 74

868157-56-6P 868157-57-7P 868157-51-1P ΤТ

> RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(polymers for photoresist compns. with good resolution)

22 REFERENCE COUNT: THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L37 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2005:811128 CAPLUS Full-text

DOCUMENT NUMBER: 143:219451

TITLE: F2 laser-sensitive positive photoresist compositions

with high sensitivity and pattern formation using them

INVENTOR(S): Inabe, Haruki

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan SOURCE: Jpn. Kokai Tokkyo Koho, 76 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD⊺∩I	JP 2005221552 RITY APPLN. INFO.:	A		JP 2004-26698 JP 2004-26698	20040203
AB	The compns. compris		-containing	polymers increasing the	eir alkali
				B) photoacid generators e of which is an alkoxy	

d C≥3 linking group between the alkoxy and the alc. OH.

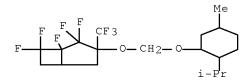
862374-83-2 862374-85-4 ΤТ

> RL: TEM (Technical or engineered material use); USES (Uses) (mixed solvents for F2 laser-sensitive pos. photoresists with high sensitivity)

RN 862374-83-2 CAPLUS

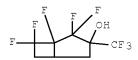
CN Bicyclo[3.2.0]heptan-3-ol, 1,2,2,7,7-pentafluoro-3-(trifluoromethyl)-, polymer with 1,2,2,7,7-pentafluoro-3-[[[5-methyl-2-(1-methyl-2)]]methylethyl)cyclohexyl]oxy]methoxy]-3-(trifluoromethyl)bicyclo[3.2.0]hepta ne (9CI) (CA INDEX NAME)

CRN 862374-82-1 CMF C19 H26 F8 O2



CM 2

CRN 637035-70-2 CMF C8 H6 F8 O

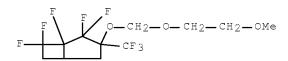


RN 862374-85-4 CAPLUS

CN Bicyclo[3.2.0]heptan-3-ol, 1,2,2,7,7-pentafluoro-3-(trifluoromethyl)-, polymer with 1,2,2,7,7-pentafluoro-3-[(2-methoxyethoxy)methoxy]-3-(trifluoromethyl)bicyclo[3.2.0]heptane (9CI) (CA INDEX NAME)

CM 1

CRN 862374-84-3 CMF C12 H14 F8 O3



CM 2

CRN 637035-70-2 CMF C8 H6 F8 O

IC ICM G03F007-039

ICS G03F007-004; H01L021-027

CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

IT 365568-38-3 819860-42-9 857285-72-4 862374-74-1 862374-75-2 862374-77-4 862374-79-6 862374-81-0 862374-83-2 862374-85-4

RL: TEM (Technical or engineered material use); USES (Uses) (mixed solvents for F2 laser-sensitive pos. photoresists with high sensitivity)

L37 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2005:281095 CAPLUS Full-text

DOCUMENT NUMBER: 142:345160

TITLE: Positive-working resist composition and pattern

formation using it

INVENTOR(S): Fujimori, Toru

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan SOURCE: Jpn. Kokai Tokkyo Koho, 52 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005084238	A	20050331	JP 2003-314217	20030905
PRIORITY APPLN. INFO.:			JP 2003-314217	20030905

AB The composition contains (A) a polymer substituted with F in the main chain, which decomps by the action of an acid and increases its solubility to alkaline developer, (B) a compound generating an acid by irradiation of actinic ray, and (C)  $\geq 2$  kinds of basic compds. The resist film is formed, exposed, and developed for pattern formation. The composition is sensitive to F2 excimer laser beam (157 nm) and gives clear pattern without defect.

II 835632-99-0

RL: TEM (Technical or engineered material use); USES (Uses) (laser-sensitive resist composition containing fluoropolymer, acid generator,

and basic compds.)

RN 835632-99-0 CAPLUS

CN 2-Propenoic acid, 1,1-dimethylethyl ester, polymer with 2-hydroxyethyl 2-propenoate and 1,2,2,7,7-pentafluoro-3-(trifluoromethyl)bicyclo[3.2.0]he ptan-3-ol (9CI) (CA INDEX NAME)

CM 1

CRN 637035-70-2 CMF C8 H6 F8 O

CM 2

CRN 1663-39-4 CMF C7 H12 O2

CM 3

CRN 818-61-1 CMF C5 H8 O3

IC ICM G03F007-039

ICS C08F212-14; C08F214-18; C08F216-14; C08F220-28; C08F232-08; G03F007-004; H01L021-027

CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

Section cross-reference(s): 38

IT 262617-13-0 585573-41-7 735307-84-3 769193-80-8 769193-81-9 769193-82-0 769193-85-3 769193-87-5 769193-88-6 769193-89-7 769195-17-7 769195-18-8 835632-98-9 835632-99-0

848679-95-8
RL: TEM (Technical or engineered material use); USES (Uses)

(laser-sensitive resist composition containing fluoropolymer, acid generator,  $% \left( 1\right) =\left( 1\right) \left( 1\right) +\left( 1\right) \left( 1\right) \left( 1\right) +\left( 1\right) \left( 1\right) \left$ 

and basic compds.)

L37 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2005:235495 CAPLUS <u>Full-text</u>

DOCUMENT NUMBER: 142:306451

TITLE: Storage-stable positive photoresists for F2 excimer

laser lithography and patterning thereof

INVENTOR(S):
Sasaki, Tomoya

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan SOURCE: Jpn. Kokai Tokkyo Koho, 98 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 2005070327 A 20050317 JP 2003-299022 20030822 PRIORITY APPLN. INFO.: JP 2003-299022 20030822

AB The photoresists containing (A) fluororesins (preferable Markush given) having F-substituted main chain or sidechains and increasing alkali solubility by acid action and (B) photoacid generators and satisfying water content ≤0.3%, are pasted, exposed, and developed to form patterns with low line-edge roughness. The resin A may be replaced by a combination of alkali-soluble fluororesins and nonpolymeric dissoln. inhibitors.

IT 764717-25-1

RL: TEM (Technical or engineered material use); USES (Uses) (chemical amplified pos. resists containing decomposition-resistant fluororesins

for F2 excimer laser lithog.)

RN 764717-25-1 CAPLUS

CN Carbonic acid, 1,1-dimethylethyl 1,2,2,7,7-pentafluoro-3-(trifluoromethyl)bicyclo[3.2.0]hept-3-yl ester, polymer with 1,2,2,7,7-pentafluoro-3-(trifluoromethyl)bicyclo[3.2.0]heptan-3-ol (9CI) (CA INDEX NAME)

CM 1

CRN 764717-24-0 CMF C13 H14 F8 O3

$$F = \begin{bmatrix} F & F & O & O \\ F & CF3 & OBu-t \end{bmatrix}$$

CM 2

CRN 637035-70-2 CMF C8 H6 F8 O

IC ICM G03F007-039

ICS G03F007-004; H01L021-027

CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

RL: TEM (Technical or engineered material use); USES (Uses) (chemical amplified pos. resists containing decomposition-resistant

fluororesins

for F2 excimer laser lithog.)

L37 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2005:120282 CAPLUS Full-text

DOCUMENT NUMBER: 142:186557

TITLE: Positive photoresist compositions containing

fluoropolymers for F2 excimer laser light lithography

INVENTOR(S): Fujimori, Toru

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan SOURCE: Jpn. Kokai Tokkyo Koho, 63 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005037777	A	20050210	JP 2003-276092	20030717
PRIORITY APPLN. INFO.:			JP 2003-276092	20030717
GI				

AΒ The photoresist compns. having high sensitivity to F2 excimer laser light contain (A) fluoropolymers which contain F replacing polymer main chains, decompose with acids and increase solubility in alkali developers, (B) photoacid generators, and (C) compds. containing  $\geq 3$  OH or substituted OH. Preferably, the fluoropolymers A contain ≥1 of repeating units selected from CFR0CFR1, CFR0CF(OR2), and CF(OR3)CF(OR4) and  $\geq 1$  of repeating units selected from CH2CH[CH2C(CF3)2OR5], I, CH2CR9[CO2A2C(CF3)2OR5], II, CHR13CR14(CO2R15), and III [R0, R1 = H, F, alkyl, cycloalkyl, aryl; R2-R4 = alkyl, cycloalkyl, aryl; R0 and R1, R0 and R2, and R3 and R4 may be bonded together and form ring; R5 = alkyl, cycloalkyl, acyl, alkoxycarbonyl; R6-R8 = H, halo, alkyl, alkoxy; R9, R10 = H, halo, cyano, alkyl; R11, R12 = H, OH, halo, cyano, alkoxy, acyl, alkyl, cycloalkyl, alkenyl, aralkyl, aryl; R13, R14 = H, halo, cyano, alkyl; R15 = CR36R37R38, CR36R37(OR39), IV; R36-R39 = alkyl, cycloalkyl, alkenyl, aralkyl, aryl; ≥2 of R36-R38, or R36, R37, and R39 may be bonded together and form ring; R40 = alkyl, cycloalkyl, alkenyl, alkynyl, aralkyl, aryl; Z = atom. group which form single or polycyclic alicyclic group with C atom; R16-R18 = H, halo, cyano, alky, alkoxy, CO2R15; A1, A2 = single

bond, alkylene, alkenylene, cycloalkylene, divalent alicyclic group, divalent linking group formed by combination of these, O2CR22, CO2R23, CONR24R25; R22, R23, R25 = single bond, alkylene, alkenylene, cycloalkylene, arylene which may contain ether, ester, amide, urethane, or ureido group; R24 = H, alkyl, cycloalkyl, aralkyl, aryl; n = 0, 1; m = 1, 2].

IT 835632-99-0P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

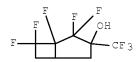
(pos. photoresist compns. containing fluoropolymers, PAG, and saccharide derivs. for F2 excimer laser light lithog.)

RN 835632-99-0 CAPLUS

CN 2-Propenoic acid, 1,1-dimethylethyl ester, polymer with 2-hydroxyethyl 2-propenoate and 1,2,2,7,7-pentafluoro-3-(trifluoromethyl)bicyclo[3.2.0]he ptan-3-ol (9CI) (CA INDEX NAME)

CM 1

CRN 637035-70-2 CMF C8 H6 F8 O



CM 2

CRN 1663-39-4 CMF C7 H12 O2

CM 3

CRN 818-61-1 CMF C5 H8 O3

IC ICM G03F007-039 ICS C08F014-18; C08F016-24; G03F007-004; H01L021-027

CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

IT 262617-13-0P 735307-84-3P 769193-80-8P 769193-81-9P 769193-82-0P 769193-83-1P 769193-84-2P 769193-85-3P 769193-86-4P 769193-87-5P 769193-88-6P 769193-89-7P 769195-17-7P 769195-18-8P 835632-99-0P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(pos. photoresist compns. containing fluoropolymers, PAG, and saccharide derivs. for F2 excimer laser light lithog.)

L37 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2005:78066 CAPLUS <u>Full-text</u>

DOCUMENT NUMBER: 142:186539

TITLE: Positive photosensitive composition and method of

forming resist pattern

INVENTOR(S): Kodama, Kunihiko

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan SOURCE: U.S. Pat. Appl. Publ., 48 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20050019690	A1	20050127	US 2004-895824	20040722
EP 1505439	A2	20050209	EP 2004-17305	20040722
EP 1505439	А3	20050420		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR JP 2005055890 A 20050303 JP 2004-215380 20040723 PRIORITY APPLN. INFO.: JP 2003-278995 A 20030724

AB A pos. photosensitive composition comprises: (A) 5 to 20 parts by weight of the total amount of at least one compound that generates an acid upon irradiation with an actinic ray; and (B) 100 parts by weight of the total amount of at least one fluorine atom-containing resin having a group that increases a solubility of the resin in an alkaline developer by the action of an acid.

IT 764717-25-1

RL: TEM (Technical or engineered material use); USES (Uses) (resin; pos. photosensitive composition for forming resist pattern containing)

RN 764717-25-1 CAPLUS

CN Carbonic acid, 1,1-dimethylethyl 1,2,2,7,7-pentafluoro-3-(trifluoromethyl)bicyclo[3.2.0]hept-3-yl ester, polymer with 1,2,2,7,7-pentafluoro-3-(trifluoromethyl)bicyclo[3.2.0]heptan-3-ol (9CI) (CA INDEX NAME)

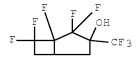
CM 1

CRN 764717-24-0 CMF C13 H14 F8 O3

$$\begin{array}{c|c} F & F & \bigcirc \\ \hline & F & \bigcirc \\ \hline & CF3 \end{array}$$

CM 2

CRN 637035-70-2 CMF C8 H6 F8 O



IC ICM G03C001-76

INCL 430270100

CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

Section cross-reference(s): 38

RL: TEM (Technical or engineered material use); USES (Uses)

(resin; pos. photosensitive composition for forming resist pattern containing)

L37 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2004:801637 CAPLUS Full-text

DOCUMENT NUMBER: 141:322566

TITLE: Positive-working photoresist composition for 157 nm

photolithography

INVENTOR(S):
Mizutani, Kazuyoshi

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan SOURCE: Jpn. Kokai Tokkyo Koho, 72 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004271844 PRIORITY APPLN. INFO.:	А	20040930	JP 2003-61749 JP 2003-61749	20030307 20030307

The title pos. working photoresist composition comprises an alkaline developable fluoropolymer containing a group -C(CR1R2R3)(CR4R5R6)OH [R1-6 = F, H, alkyl], an alkaline developable fluoropolymer containing a group(s) - C(CR1R2R3)(CR4R5R6)OQ and/or -CO2Q' [R1-6 = F, H, alkyl; Q, Q' = group capable of decomposing upon acid action], an alkaline developable fluoro compound, and a photoacid generator. The photoresist composition shows improved line-edge roughness and developability.

IT 765915-85-3P

RL: PNU (Preparation, unclassified); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (alkaline developable fluoropolymer; pos.-working photoresist composition

for

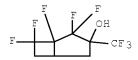
157 nm photolithog.)

RN 765915-85-3 CAPLUS

CN 2-Propenoic acid, 1,1-dimethylpropyl ester, polymer with 2-hydroxyethyl 2-propenoate and 1,2,2,7,7-pentafluoro-3-(trifluoromethyl)bicyclo[3.2.0]he ptan-3-ol (9CI) (CA INDEX NAME)

CM 1

CRN 637035-70-2 CMF C8 H6 F8 O



CM 2

CRN 7383-26-8 CMF C8 H14 O2

CM 3

CRN 818-61-1 CMF C5 H8 O3

IC ICM G03F007-039

ICS C08F212-14; C08F216-04; C08F216-14; C08F220-00; C08F232-04; C08F232-08; G03F007-004; H01L021-027

CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

Section cross-reference(s): 38

IT 262617-10-7P 370866-39-0P 637035-70-2P 765915-76-2P 765915-77-3P 765915-78-4P 765915-79-5P 765915-80-8P 765915-82-0P 765915-83-1P 765915-84-2P 765915-85-3P 765915-86-4P 765915-87-5P

765942-17-4P

RL: PNU (Preparation, unclassified); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (alkaline developable fluoropolymer; pos.-working photoresist composition

for

157 nm photolithog.)

L37 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2004:796420 CAPLUS Full-text

DOCUMENT NUMBER: 141:304288

TITLE: Positive resist composition and method of forming

resist pattern using the same

INVENTOR(S):
Kodama, Kunihiko

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 46 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PA7	CENT 1	NO.			KINI	)	DATE			APP	LICAT	ION	NO.		D	ATE	
							_									_		
	ΕP	1462	858			A1		2004	0929		ΕP	2004-	6536			2	0040	318
		R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR	, IT,	LI,	LU,	NL,	SE,	MC,	PT,
			IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL	, TR,	BG,	CZ,	EE,	HU,	PL,	SK
	JΡ	2004	2872	62		Α		2004	1014		JP	2003-	8126	0		2	0030	324
	US	2004	0197	708		A1		2004	1007		US	2004-	8064	51		2	0040	323
	US	7192	685			В2		2007	0320									
PRIOR	CTI	APP:	LN.	INFO	.:						JP	2003-	8126	0	Ž	A 2	0030	324
0			(0)			1077	~ ~ m	1 11	20101	2.0								

OTHER SOURCE(S): MARPAT 141:304288

AB A pos. resist composition comprising: (A) a fluorine atom-containing resin, wherein the resin comprises at least one group that increases a solubility of the resin in an alkali developer by the action of an acid; and (B) a sulfonium salt compound having a cation moiety, wherein the cation moiety contains at least one hydroxy group, and the sulfonium salt compound generates an acid upon irradiation with one of an actinic ray and a radiation.

IT 764717-25-1

RL: TEM (Technical or engineered material use); USES (Uses)

(pos. resist composition from fluoropolymer and sulfonium salt photoacid)

RN 764717-25-1 CAPLUS

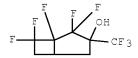
CN Carbonic acid, 1,1-dimethylethyl 1,2,2,7,7-pentafluoro-3-(trifluoromethyl)bicyclo[3.2.0]hept-3-yl ester, polymer with 1,2,2,7,7-pentafluoro-3-(trifluoromethyl)bicyclo[3.2.0]heptan-3-ol (9CI) (CA INDEX NAME)

CM 1

CRN 764717-24-0 CMF C13 H14 F8 O3

CM 2

CRN 637035-70-2 CMF C8 H6 F8 O



IC ICM G03F007-004 ICS G03F007-039

CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

Section cross-reference(s): 38

134993-70-7 240424-21-9 ΤT 279218-75-6 367522-51-8 370102-83-3 524699-58-9 524699-59-0 524699-48-7 524699-56-7 524699-60-3 607710-65-6 524699-61-4 585573-40-6 585573-50-8 607710-74-7 669768-43-8 677354-71-1 732299-47-7 762274-01-1 762275-99-0 764717-22-8 764717-23-9 764717-19-3 764717-20-6 764717-21-7 764717-25-1 764717-26-2 764717-28-4 764717-29-5 764717-30-8 764717-32-0

RL: TEM (Technical or engineered material use); USES (Uses) (pos. resist composition from fluoropolymer and sulfonium salt photoacid)

L37 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2003:1007889 CAPLUS Full-text

DOCUMENT NUMBER: 140:50326

TITLE: Positive resist composition containing specific multi

functional epoxy compound for F2 excimer laser

lithography

INVENTOR(S): Toishi, Kouji; Miya, Yoshiko; Uetani, Yasunori

PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan

SOURCE: U.S. Pat. Appl. Publ., 20 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE	
				_		
US 20030236351	A1	20031225	US 2003-404671		20030402	
US 7129014	В2	20061031				
JP 2004004703	A	20040108	JP 2003-98932		20030402	
PRIORITY APPLN. INFO.:			JP 2002-101003	Α	20020403	

AB The present invention provides a pos. resist composition comprising a resin which itself is insol. or poorly soluble in an alkali aqueous solution but becomes soluble in an alkali aqueous solution by the action of an acid, an acid generator, and multifunctional epoxy compound, wherein the content of halogen atoms in the resin is ≥40%, at least one of structural units constituting the resin is a structural unit having an alicyclic hydrocarbon skeleton, and the structural unit having an alicyclic hydrocarbon skeleton contains therein at least one group rendering the resin soluble in an alkali

aqueous solution by the action of an acid, and at least one halogen atom. The composition is suitable for F2 excimer laser lithog. and provides good quality photoresist.

IT 637035-72-4DP, ethoxymethylated

RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(resin; pos. resist composition)

RN 637035-72-4 CAPLUS

CN Bicyclo[3.2.1]octan-3-ol, 1,2,2,7,7-pentafluoro-3-(trifluoromethyl)-, polymer with 1,2,2,7,7-pentafluoro-3-(trifluoromethyl)bicyclo[3.2.0]heptan-3-ol (9CI) (CA INDEX NAME)

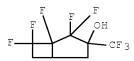
CM 1

CRN 637035-71-3 CMF C9 H8 F8 O



CM 2

CRN 637035-70-2 CMF C8 H6 F8 O



IC ICM C08F008-00

INCL 525107000; X52-552.3; X52-553.9; X52-541.6

 $\mbox{CC}$   $\mbox{74-5}$  (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

Section cross-reference(s): 35

IT 637035-72-4DP, ethoxymethylated

RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(resin; pos. resist composition)

REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L37 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2003:570092 CAPLUS Full-text

DOCUMENT NUMBER: 140:365497

TITLE: Study of resist outgassing by F2 laser irradiation AUTHOR(S): Itakura, Yasuo; Kawasa, Youichi; Sumitani, Akira; Ishikawa, Seiichi; Irie, Shigeo; Itani, Toshiro

CORPORATE SOURCE: Research Division, Komatsu Ltd., Kanagawa, 254-8567,

Japan

SOURCE: Proceedings of SPIE-The International Society for

Optical Engineering (2003), 5039(Pt. 1, Advances in

Resist Technology and Processing XX), 524-532

CODEN: PSISDG; ISSN: 0277-786X

PUBLISHER: SPIE-The International Society for Optical Engineering

DOCUMENT TYPE: Journal LANGUAGE: English

F2 laser lithog. at 157 nm is the most promising candidate of post-ArF excimer AΒ laser lithog. A major concern, however, is the deterioration of 157 nm optics due to contamination under F2 laser irradiation An evaluation of outgassed products of 157 nm resist and their effect on optical materials and is therefore indispensable for F2 laser lithog. Semiconductor Leading Edge Technologies Inc. (Selete) and Komatsu Ltd. designed and constructed a resist outgassing evaluation system in order to develop exposure tools and resists for 157 nm lithog. The system dets. the neg. effects of outgassing resist contaminants on the transmittance of optical materials under F2 laser irradiation The system has two units. One unit collects resist outgas and analyzes sampled gas in a gas chromatograph mass spectrometer (GC-MS). The other unit is a resist outgassing adhesion unit, which measures the transmittance change of optical materials due to contamination adhesion in real-time. Our anal. showed that most outgassed products were from the resist protecting groups and photoacid generators (PAG) including small hydrocarbons like isobutene, benzene derivs. and dimethoxymethane. After irradiating a 157 nm lithog. resist with a total dose of 30 J/cm2 the transmittance of a calcium fluoride (CaF2) substrate decreased from initially 90% to 85%. This was due to adhesion contamination as XPS anal. showed an organic contamination deposition of over 5 nm thickness on the CaF2 substrate.

IT 681242-80-8

RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)

(effects of outgassing contaminants from chemical amplified photoresist on transmittance of optical materials under F2 laser irradiation)

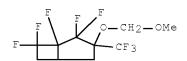
RN 681242-80-8 CAPLUS

Bicyclo[3.2.0]heptan-3-ol, 1,2,2,7,7-pentafluoro-3-(trifluoromethyl)-, polymer with 1,2,2,7,7-pentafluoro-3-(methoxymethoxy)-3-(trifluoromethyl)bicyclo[3.2.0]heptane (9CI) (CA INDEX NAME)

CM 1

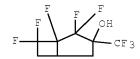
CN

CRN 681242-79-5 CMF C10 H10 F8 O2



CM 2

CRN 637035-70-2 CMF C8 H6 F8 O



CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

IT 365568-38-3 591767-91-8 681242-80-8

RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)

(effects of outgassing contaminants from chemical amplified photoresist on transmittance of optical materials under F2 laser irradiation)

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> FIL STNGUIDE COST IN U.S. DOLLARS

SINCE FILE TOTAL
ENTRY SESSION
72.60 1010.93

FULL ESTIMATED COST

SINCE FILE TOTAL ENTRY SESSION

CA SUBSCRIBER PRICE

-9.60 -10.40

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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Jun 20, 2008 (20080620/UP).

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

=> d his nofil

L6

(FILE 'HOME' ENTERED AT 13:38:14 ON 24 JUN 2008)

FILE 'CAPLUS' ENTERED AT 13:38:35 ON 24 JUN 2008

SEL RN

L2 62303 SEA ABB=ON PLU=ON (102-71-6/BI OR 11105-01-4/BI OR 69-72-7/BI

OR 808752-25-2/BI OR 854985-67-4/BI)

L3 1 SEA ABB=ON PLU=ON L1 AND L2

D IBIB ABS HITSTR HITIND

L4 1 SEA ABB=ON PLU=ON 854985-67-4/RN

FILE 'REGISTRY' ENTERED AT 13:44:32 ON 24 JUN 2008

L5 1 SEA ABB=ON PLU=ON 854985-67-4/RN D FIDE

FILE 'REGISTRY' ENTERED AT 13:45:32 ON 24 JUN 2008

1 SEA ABB=ON PLU=ON 854985-66-3/RN

SET NOTICE 1 DISPLAY

D L6 SQIDE 1-

SET NOTICE LOGIN DISPLAY

L7 1 SEA ABB=ON PLU=ON 854985-66-3/RN

L8		1 SEA ABB=ON PLU=ON 681242-79-5/RN
L9	FILE	'CAPLUS' ENTERED AT 13:47:18 ON 24 JUN 2008 0 SEA ABB=ON PLU=ON L7 AND L8 S 681242-79-5/CRN
L10	FILE	'REGISTRY' ENTERED AT 13:47:55 ON 24 JUN 2008 3 SEA ABB=ON PLU=ON 681242-79-5/CRN
L11	FILE	'CAPLUS' ENTERED AT 13:47:55 ON 24 JUN 2008 3 SEA ABB=ON PLU=ON L10 S 854985-66-3/CRN
L12	FILE	'REGISTRY' ENTERED AT 13:48:08 ON 24 JUN 2008 1 SEA ABB=ON PLU=ON 854985-66-3/CRN
L13		'CAPLUS' ENTERED AT 13:48:09 ON 24 JUN 2008 1 SEA ABB=ON PLU=ON L12
	FILE	'STNGUIDE' ENTERED AT 13:50:26 ON 24 JUN 2008
L14 L15 L16 L17 L18 L19 L20 L21 L22 L23 L24 L25 L26 L27 L28 L29 L30 L31		'REGISTRY' ENTERED AT 13:53:16 ON 24 JUN 2008  SCREEN 2043  STRUCTURE UPLOADED  QUE ABB=ON PLU=ON L15 AND L14  0 SEA SSS SAM L15 AND L14  3 SEA SSS FUL L15 AND L14  D SCAN  STRUCTURE UPLOADED  0 SEA SSS SAM L19  0 SEA SSS FUL L19  STRUCTURE UPLOADED  0 SEA SSS SAM L22  0 SEA SSS FUL L22  STRUCTURE UPLOADED  0 SEA SSS FUL L22  STRUCTURE UPLOADED  0 SEA SSS FUL L25  D SCAN  SCREEN 2043  STRUCTURE UPLOADED  QUE ABB=ON PLU=ON L29 AND L28  0 SEA SSS SAM L29 AND L28
L32		11 SEA SSS FUL L29 AND L28
L33 L34 L35 L36	FILE	'CAPLUS' ENTERED AT 14:06:28 ON 24 JUN 2008  2 SEA ABB=ON PLU=ON L27  13 SEA ABB=ON PLU=ON L32  2 SEA ABB=ON PLU=ON L33 AND L34  1 SEA ABB=ON PLU=ON L35 NOT L1  D IBIB ABS HITSTR HITIND  11 SEA ABB=ON PLU=ON L34 NOT L35  D IBIB ABS HITSTR HITIND 1-11
	FILE	'STNGUIDE' ENTERED AT 14:09:57 ON 24 JUN 2008
=> F	IL WPI	XX

=> FIL WPIX
COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE TOTAL ENTRY SESSION 0.66 1011.59

SINCE FILE TOTAL ENTRY SESSION 0.00 -10.40

CA SUBSCRIBER PRICE

FILE 'WPIX' ENTERED AT 14:16:43 ON 24 JUN 2008 COPYRIGHT (C) 2008 THOMSON REUTERS

FILE LAST UPDATED: 20 JUN 2008 <20080620/UP> MOST RECENT THOMSON SCIENTIFIC UPDATE: 200839 <200839/DW> DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE >>> Now containing more than 1.1 million chemical structures in DCR <<<

>>> IPC Reform backfile reclassifications have been loaded to the end of March 2008. No update date (UP) has been created for the reclassified documents, but they can be identified by 20060101/UPIC and 20061231/UPIC, 20070601/UPIC, 20071001/UPIC, 20071130/UPIC and 20080401/UPIC. ECLA reclassifications to April and US national classifications to the end of January 2008 have also been loaded. Update dates 20080401/UPEC and /UPNC have been assigned to these. <<<

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http://www.stn-international.de/training\_center/patents/stn\_guide.pdf

FOR DETAILS OF THE PATENTS COVERED IN CURRENT UPDATES, SEE http://scientific.thomsonreuters.com/support/patents/coverage/latestupdates/

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>>> HELP for European Patent Classifications see HELP ECLA, HELP ICO <<<

>>> Please note that the COPYRIGHT notification has changed <<<

'BI BIEX' IS DEFAULT SEARCH FIELD FOR 'WPIX' FILE

=> s 125

SAMPLE SEARCH INITIATED 14:18:34 FILE 'WPIX' SAMPLE SCREEN SEARCH COMPLETED - 8 TO ITERATE

8 ITERATIONS 0 ANSWERS 100.0% PROCESSED

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\* BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 8 TO 164

PROJECTED ANSWERS: 0 TO

L38 0 SEA SSS SAM L25

=> s 125 full

FULL SEARCH INITIATED 14:18:42 FILE 'WPIX'

FULL SCREEN SEARCH COMPLETED - 49 TO ITERATE

100.0% PROCESSED 49 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

L39 0 SEA SSS FUL L25 => s 129 full FULL SEARCH INITIATED 14:18:53 FILE 'WPIX' FULL SCREEN SEARCH COMPLETED -49 TO ITERATE 100.0% PROCESSED 49 ITERATIONS 0 ANSWERS SEARCH TIME: 00.00.01 L40 0 SEA SSS FUL L29 => s 111 US20070148581/PN L41 => d full L41 ANSWER 1 OF 1 WPIX COPYRIGHT 2008 THOMSON REUTERS on STN DNC C2005-145823 [48] DNN N2005-390117 [48] ΤI Photoresist composition for formation of resist pattern, contains polymer component containing alkali-soluble structural unit with preset aliphatic cyclic base, and acid generating-agent component containing specific sulfonium compound DC A89; E13; G06; L03; P84; P83; U11 ENDO K; TSUJI H ΙN (TOKQ-C) TOKYO OHKA KOGYO CO LTD PA CYC 106 WO 2005057284 A1 20050623 (200548)\* JA 27[0] PΤ JP 2005172949 A 20050630 (200548) JA 16 US 20070148581 A1 20070628 (200743) EN ADT WO 2005057284 A1 WO 2004-JP17719 20041129; JP 2005172949 A JP 2003-409500 20031208; US 20070148581 Al WO 2004-JP17719 20041129; US 20070148581 A1 US 2006-581777 20060606 PRAI JP 2003-409500 20031208 IPCI G03C0001-00 [I,A]; G03C0001-00 [I,C] IPCR G03F0007-004 [I,A]; G03F0007-004 [I,C]; G03F0007-039 [I,A]; G03F0007-039 [I,C]; H01L0021-02 [I,C]; H01L0021-027 [I,A] EPC G03F0007-004D; G03F0007-004F; G03F0007-039C1; G03F0007-039C1S NCL NCLM 430/270.100 AΒ WO 2005057284 A1 UPAB: 20051223 NOVELTY - The photoresist composition consists of a polymer component (A) whose alkali solubility changes by effect of an acid, and an acid generatingagent component (B) containing specific sulfonium compound. The polymer component (A) contains an alkali-soluble structural unit with the aliphatic cyclic base having both: (i) fluorine atom and a fluorinated alkyl group; and (ii) alcoholic hydroxyl group. DETAILED DESCRIPTION - The photoresist composition consists of a

- DETAILED DESCRIPTION The photoresist composition consists of a polymer component (A) whose alkali solubility changes by effect of an acid, and an acid generating-agent component (B) containing at least one type of sulfonium compound of formula (1) which generates an acid by exposure. The polymer component (A) contains an alkali-soluble structural unit with the aliphatic cyclic base having both:
  - (i) fluorine atom and a fluorinated alkyl group; and
  - (ii) alcoholic hydroxyl group.
- X = 2-6C alkylene base in which at least one hydrogen atom is substituted with fluorine atom; and
- R1-R3 = aryl group or alkyl group, at least one of R1-R3 is an aryl group.
- An INDEPENDENT CLAIM is included for the formation method of resist pattern. The method involves applying the photoresist composition on

substrate, to form a resist film which is exposed alternatively. After exposure, heating and image development are performed.

USE - For formation method of resist pattern (claimed) used for semiconductor integrated circuit, by lithography.

ADVANTAGE - The photoresist composition provides resist film having improved resolution. The photoresist composition has excellent storage stability.

- TECH ORGANIC CHEMISTRY Preferred Composition: The photoresist composition further contains:
  - (1) nitrogen-containing organic compound; or
  - (2) carboxylic acid, oxo-acid of phosphorus or its derivative(s). INORGANIC CHEMISTRY Preferred Substrate: The substrate is provided with silicon oxynitride film.
- ABEX EXAMPLE A fluorine-containing polymer (in pts.wt.) (100) containing components of formulae (5A) and (5B) (where X and Y are molar ratio, and X:Y=50:50) protected by methoxy methyl group, an acid generating agent (5) of formula (16), triethanolamine (0.1) and salicylic acid (0.1) were introduced into propylene glycol monomethyl ether acetate (1300). Mixing was performed to obtain a photoresist composition. The obtained photoresist composition was applied uniformly on a silicon wafer provided with a thin film of silicon oxynitride. Heating was performed for 90 seconds at 90 degrees C, followed by drying to obtain a resist film of thickness 180 nm. Selective exposure was performed, followed by heating. The obtained pattern was developed using a solution of 2.38 wt.% tetramethyl ammonium hydroxide. Image development was performed for 60 seconds at 23 degrees C, followed by washing and drying, to form a pattern. The rectangle property of the composition was exhibited when the cross-sectional shape of the line of the pattern was observed. Film decrease was found to be eliminated. - R5 = H, 1-15C aryl or alkyl group. FS CPI; GMPI; EPI

MC CPI: A12-E07C; A12-L02B2; E07-F03; E10-A01; E11-P; E31-P06E; G06-D06A; G06-F03C; G06-F03D; G06-G17; G06-G18; L04-C05; L04-C06B1

EPI: U11-A06A; U11-C04E2

=> FIL REGISTRY

COST IN U.S. DOLLARS

SINCE FILE TOTAL
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CA SUBSCRIBER PRICE

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=> s fluoropolymer/pct L42 11507 FLUOROPOLYMER/PCT

=> help pct

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Polymer class terms (/PCT) are assigned to all polymers in the REGISTRY File except oligomers (dimers, trimers, tetramers, etc) and coordination compound polymers that would only receive the class POLYOTHER or one of the MANUAL class terms. If the classification for a polymer is uncertain, it receives the class POLYOTHER.

Polymer class terms are assigned algorithmically. Each term represents the structural characteristics of the polymer backbone and reflects:

- the types of linkages formed in the polymerization process
- linkages already present within the monomer backbone
- linkages present in structural repeating unit (SRU) backbones

If, when assigning the polymer class terms, the system identifies that a linkage for a certain class was formed during the polymerization process, a second polymer class term with the word FORMED added is indexed. When you search a class term without the word FORMED, you also retrieve the FORMED polymers. FORMED terms are present for all classes except resins, addition polymers, double stranded polymers, and polynucleotides.

There are currently (7/93) 143 polymer class terms. These may be viewed by expanding on the /PCT field. PCT and POLYMER CLASS TERM are also indexed in the /FA field.

=> FIL CAPLUS COST IN U.S. DOLLARS	SINCE FILE	TOTAL
FULL ESTIMATED COST	ENTRY 7.86	SESSION 1237.23
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-10.40

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=> s 142
L43 95125 L42
=> s photoresist? or ?resist?
         64711 PHOTORESIST?
       1814707 ?RESIST?
L44
       1814707 PHOTORESIST? OR ?RESIST?
=> s 143 and 144
        20558 L43 AND L44
L45
=> s acid(2a)generator
       4601553 ACID
       1633170 ACTDS
       5114768 ACID
                 (ACID OR ACIDS)
         95090 GENERATOR
         42304 GENERATORS
        116870 GENERATOR
                  (GENERATOR OR GENERATORS)
L46
          3898 ACID(2A)GENERATOR
=> s 145 and 146
         63 L45 AND L46
=> s (69-72-7 \text{ or } 102-71-6 \text{ or } 69-72-7)/rn
         29444 69-72-7
          3582 69-72-7D
         26390 69-72-7/RN
                 (69-72-7 (NOTL) 69-72-7D)
         22226 102-71-6
          2609 102-71-6D
         19871 102-71-6/RN
                 (102-71-6 (NOTL) 102-71-6D)
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          3582 69-72-7D
         26390 69-72-7/RN
                  (69-72-7 (NOTL) 69-72-7D)
L48
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=> s 147 and 148
            1 L47 AND L48
L49
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=> s 149 not 11

L50 1 L49 NOT L1

=> d ibib abs hitstr hitind

L50 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:275109 CAPLUS Full-text

DOCUMENT NUMBER: 138:311562

TITLE: Chemical amplification resist material

containing fluoropolymer compound and dissolution

inhibitor and method of patterning

INVENTOR(S): Hatakeyama, Jun; Harada, Yuji; Kawai, Yoshio; Sasako,

Masaru; Endo, Masataka; Kishimura, Shinji; Otani, Michitaka; Komoritani, Haruhiko; Maeda, Kazuhiko

PATENT ASSIGNEE(S): Shin-Etsu Chemical Industry Co., Ltd., Japan;

Matsushita Electric Industrial Co., Ltd.; Central

Glass Co., Ltd.

SOURCE: Jpn. Kokai Tokkyo Koho, 31 pp.

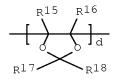
CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003107706	A	20030409	JP 2001-296608	20010927
JP 3945200	В2	20070718		
PRIORITY APPLN. INFO.:			JP 2001-296608	20010927
OTHER SOURCE(S):	MARPAT	138:311562		
GI				



Ι

The chemical amplification resist material comprises (A) a polymer compound containing  $\geq 1$  F and (B) a dissoln. inhibitor represented by R4(-R3CR1R2OR5)n (R1,2 = H, F, C1-4 alkyl, etc.; R3 = single bond, C1-4 alkylene; R4 = n-valent C4-40 aromatic group or cyclic diene; R5 = acid unstable group; and n = 2, 3, 4), (C) an organic solvent, and (D) an acid generator. The component (A) may be represented by (R7R9C-CR8R10)a, [R11C(C(:0)OR12)-CH2]b, [R13C(C(:0)OR14)-CH2]c, or I (R7-11 = H, F, trifluoromethyl; R12 = C1-20 alkyl; R13 = trifluoromethyl; R14 = acid unstable group; R15,16 = H, F; R17,18 = Me, trifluoromethyl; and at least one of R15-18 contains F). The chemical amplification resist material further contains a basic compound. The process using a F2 laser or an Ar2 laser is also claimed.

IT 102-71-6, Triethanolamine, uses

RL: TEM (Technical or engineered material use); USES (Uses) (basic compound; chemical amplification resist material containing

fluoropolymer compound and dissoln. inhibitor)
RN 102-71-6 CAPLUS
CN Ethanol, 2,2',2''-nitrilotris- (CA INDEX NAME)

IT 508217-83-2

RL: TEM (Technical or engineered material use); USES (Uses) (fluoropolymer; chemical amplification resist material containing fluoropolymer compound and dissoln. inhibitor)

RN 508217-83-2 CAPLUS

CN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, 1-ethylcyclopentyl ester, polymer with  $\alpha,\alpha$ -bis(trifluoromethyl)bicyclo[2.2.1]hept-5-ene-2-ethanol and tetrafluoroethene (9CI) (CA INDEX NAME)

CM 1

CRN 279243-69-5 CMF C15 H22 O2

CM 2

CRN 196314-61-1 CMF C11 H12 F6 O

$$CH_2 = CH_3$$

CM 3

CRN 116-14-3 CMF C2 F4

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ICS G03F007-004; G03F007-38; H01L021-027
CC
     74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other
     Reprographic Processes)
     Section cross-reference(s): 38
ST
     chem amplification resist photoresist fluoropolymer
     dissoln inhibitor
ΙT
    Photoresists
       Resists
        (patterning of chemical amplification resist material containing
        fluoropolymer compound and dissoln. inhibitor)
     102-71-6, Triethanolamine, uses
                                     102-82-9, Tributylamine
ΤТ
                211919-60-7 449165-34-8
     RL: TEM (Technical or engineered material use); USES (Uses)
        (basic compound; chemical amplification resist material containing
        fluoropolymer compound and dissoln. inhibitor)
     117458-06-7 153821-77-3
                               508217-87-6 508217-88-7
                                                             508217-89-8
     508217-90-1 508217-92-3
                               508217-94-5 508217-96-7
                                                             508217-98-9
     508218-00-6 508218-01-7
                               508218-02-8 508218-03-9
                                                            508218-04-0
     508218-05-1 508218-06-2
                               508218-07-3
                                             508218-08-4
     RL: TEM (Technical or engineered material use); USES (Uses)
        (dissoln. inhibitor; chemical amplification resist material
        containing fluoropolymer compound and dissoln. inhibitor)
ΙT
     475471-96-6
                  508217-81-0
                                508217-82-1 508217-83-2
     508217-84-3
                  508217-86-5
     RL: TEM (Technical or engineered material use); USES (Uses)
        (fluoropolymer; chemical amplification resist material containing
        fluoropolymer compound and dissoln. inhibitor)
     144317-44-2
ΙT
     RL: CAT (Catalyst use); USES (Uses)
        (photoacid; chemical amplification resist material containing
        fluoropolymer compound and dissoln. inhibitor)
=> d his nofil
     (FILE 'HOME' ENTERED AT 13:38:14 ON 24 JUN 2008)
     FILE 'CAPLUS' ENTERED AT 13:38:35 ON 24 JUN 2008
L1
              1 SEA ABB=ON PLU=ON US20070148581/PN
               SEL RN
L2
          62303 SEA ABB=ON PLU=ON (102-71-6/BI OR 11105-01-4/BI OR 69-72-7/BI
                 OR 808752-25-2/BI OR 854985-67-4/BI)
L3
              1 SEA ABB=ON PLU=ON L1 AND L2
                D IBIB ABS HITSTR HITIND
L4
              1 SEA ABB=ON PLU=ON 854985-67-4/RN
     FILE 'REGISTRY' ENTERED AT 13:44:32 ON 24 JUN 2008
L5
              1 SEA ABB=ON PLU=ON 854985-67-4/RN
                D FIDE
     FILE 'REGISTRY' ENTERED AT 13:45:32 ON 24 JUN 2008
              1 SEA ABB=ON PLU=ON 854985-66-3/RN
L6
                SET NOTICE 1 DISPLAY
                D L6 SQIDE 1-
               SET NOTICE LOGIN DISPLAY
              1 SEA ABB=ON PLU=ON 854985-66-3/RN
L7
```

TC

ICM G03F007-039

L8		1 SEA ABB=ON PLU=ON 681242-79-5/RN
L9	FILE	'CAPLUS' ENTERED AT 13:47:18 ON 24 JUN 2008 0 SEA ABB=ON PLU=ON L7 AND L8 S 681242-79-5/CRN
L10	FILE	'REGISTRY' ENTERED AT 13:47:55 ON 24 JUN 2008 3 SEA ABB=ON PLU=ON 681242-79-5/CRN
L11	FILE	'CAPLUS' ENTERED AT 13:47:55 ON 24 JUN 2008 3 SEA ABB=ON PLU=ON L10 S 854985-66-3/CRN
L12	FILE	'REGISTRY' ENTERED AT 13:48:08 ON 24 JUN 2008 1 SEA ABB=ON PLU=ON 854985-66-3/CRN
L13	FILE	'CAPLUS' ENTERED AT 13:48:09 ON 24 JUN 2008 1 SEA ABB=ON PLU=ON L12
	FILE	'STNGUIDE' ENTERED AT 13:50:26 ON 24 JUN 2008
L14 L15 L16 L17 L18 L19 L20 L21 L22 L23 L24 L25 L26 L27 L28 L29 L30 L31 L32		'REGISTRY' ENTERED AT 13:53:16 ON 24 JUN 2008  SCREEN 2043  STRUCTURE UPLOADED  QUE ABB=ON PLU=ON L15 AND L14  0 SEA SSS SAM L15 AND L14  3 SEA SSS FUL L15 AND L14  D SCAN  STRUCTURE UPLOADED  0 SEA SSS SAM L19  0 SEA SSS FUL L19  STRUCTURE UPLOADED  0 SEA SSS FUL L22  STRUCTURE UPLOADED  0 SEA SSS FUL L22  STRUCTURE UPLOADED  0 SEA SSS FUL L25  D SCAN  SCREEN 2043  STRUCTURE UPLOADED  QUE ABB=ON PLU=ON L29 AND L28  0 SEA SSS SAM L29 AND L28  11 SEA SSS FUL L29 AND L28
L33 L34 L35 L36		'CAPLUS' ENTERED AT 14:06:28 ON 24 JUN 2008 2 SEA ABB=ON PLU=ON L27 13 SEA ABB=ON PLU=ON L32 2 SEA ABB=ON PLU=ON L33 AND L34 1 SEA ABB=ON PLU=ON L35 NOT L1 D IBIB ABS HITSTR HITIND 11 SEA ABB=ON PLU=ON L34 NOT L35 D IBIB ABS HITSTR HITIND 1-11
	FILE	'STNGUIDE' ENTERED AT 14:09:57 ON 24 JUN 2008
L38 L39 L40 L41	FILE	'WPIX' ENTERED AT 14:16:43 ON 24 JUN 2008  0 SEA SSS SAM L25  0 SEA SSS FUL L25  0 SEA SSS FUL L29  1 SEA ABB=ON PLU=ON US20070148581/PN

D FULL

FILE 'REGISTRY' ENTERED AT 14:20:58 ON 24 JUN 2008						
L42 11507 SEA ABB=ON PLU=ON FLUOROPOI	LYMER/PCT					
THE 103DIVOL EVEDED 3E 14 01 45 OV 04	T					
FILE 'CAPLUS' ENTERED AT 14:21:45 ON 24	JUN 2008					
L43 95125 SEA ABB=ON PLU=ON L42						
L44 1814707 SEA ABB=ON PLU=ON PHOTORES	IST? OR ?RESIST?					
L45 20558 SEA ABB=ON PLU=ON L43 AND I	${ m L}44$					
L46 3898 SEA ABB=ON PLU=ON ACID(2A)	GENERATOR					
L47 63 SEA ABB=ON PLU=ON L45 AND I	L46					
L48 45953 SEA ABB=ON PLU=ON (69-72-7	OR 102-71-6 OR 69-72-7)/RN					
L49 1 SEA ABB=ON PLU=ON L47 AND I	L48					
L50 1 SEA ABB=ON PLU=ON L49 NOT I	L1					
D IBIB ABS HITSTR HITIND						
=> logoff hold						
COST IN U.S. DOLLARS	SINCE FILE TOTAL					
	ENTRY SESSION					
FULL ESTIMATED COST	31.81 1269.04					
TODE BOTTLESTED COOT	31.01 1203.01					
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE TOTAL					
DISCOUNT AMOUNTS (FOR QUALIFIED ACCOUNTS)						
ENTRY SESSION						
CA SUBSCRIBER PRICE	-0.80 $-11.20$					

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 14:27:55 ON 24 JUN 2008